

# Haeshin Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9077907/publications.pdf>

Version: 2024-02-01

265  
papers

36,721  
citations

8749

75  
h-index

3031

188  
g-index

285  
all docs

285  
docs citations

285  
times ranked

30577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mussel-Inspired Surface Chemistry for Multifunctional Coatings. <i>Science</i> , 2007, 318, 426-430.	6.0	9,012
2	Single-molecule mechanics of mussel adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12999-13003.	3.3	1,814
3	A reversible wet/dry adhesive inspired by mussels and geckos. <i>Nature</i> , 2007, 448, 338-341.	13.7	1,806
4	Facile Conjugation of Biomolecules onto Surfaces via Mussel Adhesive Protein Inspired Coatings. <i>Advanced Materials</i> , 2009, 21, 431-434.	11.1	1,348
5	Polydopamine Surface Chemistry: A Decade of Discovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7523-7540.	4.0	1,232
6	Non-covalent Self-Assembly and Covalent Polymerization Co-contribute to Polydopamine Formation. <i>Advanced Functional Materials</i> , 2012, 22, 4711-4717.	7.8	1,077
7	Mussel-Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. <i>Advanced Functional Materials</i> , 2010, 20, 2132-2139.	7.8	683
8	General functionalization route for cell adhesion on non-wetting surfaces. <i>Biomaterials</i> , 2010, 31, 2535-2541.	5.7	617
9	Catechol-Functionalized Chitosan/Pluronic Hydrogels for Tissue Adhesives and Hemostatic Materials. <i>Biomacromolecules</i> , 2011, 12, 2653-2659.	2.6	568
10	Mussel-Inspired Adhesive Binders for High-Performance Silicon Nanoparticle Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2013, 25, 1571-1576.	11.1	532
11	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. <i>Advanced Functional Materials</i> , 2012, 22, 2949-2955.	7.8	436
12	Sequestering carbon dioxide into complex structures of naturally occurring gas hydrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12690-12694.	3.3	426
13	Substrate-Independent Layer-by-Layer Assembly by Using Mussel-Adhesive-Inspired Polymers. <i>Advanced Materials</i> , 2008, 20, 1619-1623.	11.1	418
14	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , 2011, 21, 108-112.	7.8	409
15	One-Step Modification of Superhydrophobic Surfaces by a Mussel-Inspired Polymer Coating. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9401-9404.	7.2	408
16	Mussel-Inspired Encapsulation and Functionalization of Individual Yeast Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2795-2797.	6.6	378
17	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3814-3824.	7.8	351
18	Thermo-sensitive, injectable, and tissue adhesive sol-gel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. <i>Soft Matter</i> , 2010, 6, 977.	1.2	336

#	ARTICLE	IF	CITATIONS
19	Bio-inspired adhesive catechol-conjugated chitosan for biomedical applications: A mini review. <i>Acta Biomaterialia</i> , 2015, 27, 101-115.	4.1	332
20	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. <i>Biomaterials</i> , 2012, 33, 6952-6964.	5.7	311
21	Norepinephrine: Material-Independent, Multifunctional Surface Modification Reagent. <i>Journal of the American Chemical Society</i> , 2009, 131, 13224-13225.	6.6	298
22	Organic Non-Volatile Memory Based on Pentacene Field-Effect Transistors Using a Polymeric Gate Electret. <i>Advanced Materials</i> , 2006, 18, 3179-3183.	11.1	294
23	Material-Independent Surface Chemistry beyond Polydopamine Coating. <i>Accounts of Chemical Research</i> , 2019, 52, 704-713.	7.6	275
24	Bioinspired Surface Immobilization of Hyaluronic Acid on Monodisperse Magnetite Nanocrystals for Targeted Cancer Imaging. <i>Advanced Materials</i> , 2008, 20, 4154-4157.	11.1	274
25	DNA/Tannic Acid Hybrid Gel Exhibiting Biodegradability, Extensibility, Tissue Adhesiveness, and Hemostatic Ability. <i>Advanced Functional Materials</i> , 2015, 25, 1270-1278.	7.8	266
26	Attenuation of the <i>in vivo</i> toxicity of biomaterials by polydopamine surface modification. <i>Nanomedicine</i> , 2011, 6, 793-801.	1.7	262
27	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 1774-1780.	7.8	246
28	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. <i>Biomacromolecules</i> , 2013, 14, 2004-2013.	2.6	242
29	TAPE: A Medical Adhesive Inspired by a Ubiquitous Compound in Plants. <i>Advanced Functional Materials</i> , 2015, 25, 2402-2410.	7.8	231
30	Complete prevention of blood loss with self-sealing haemostatic needles. <i>Nature Materials</i> , 2017, 16, 147-152.	13.3	228
31	Brush-Like Polycarbonates Containing Dopamine, Cations, and PEG Providing a Broad-Spectrum, Antibacterial, and Antifouling Surface via One-Step Coating. <i>Advanced Materials</i> , 2014, 26, 7346-7351.	11.1	227
32	Chitosan-catechol: A polymer with long-lasting mucoadhesive properties. <i>Biomaterials</i> , 2015, 52, 161-170.	5.7	223
33	Poly(norepinephrine): Ultrasoft Material-Independent Surface Chemistry and Nanodepot for Nitric Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9187-9191.	7.2	214
34	Target Delivery and Cell Imaging Using Hyaluronic Acid-Functionalized Graphene Quantum Dots. <i>Molecular Pharmaceutics</i> , 2013, 10, 3736-3744.	2.3	212
35	Targeting protein and peptide therapeutics to the heart via tannic acid modification. <i>Nature Biomedical Engineering</i> , 2018, 2, 304-317.	11.6	202
36	Polydopamine and Its Derivative Surface Chemistry in Material Science: A Focused Review for Studies at KAIST. <i>Advanced Materials</i> , 2020, 32, e1907505.	11.1	202

#	ARTICLE	IF	CITATIONS
37	Progressive fuzzy cation-assembly of biological catecholamines. <i>Science Advances</i> , 2018, 4, eaat7457.	4.7	200
38	High-strength Carbon Nanotube Fibers Fabricated by Infiltration and Curing of Mussel-Inspired Catecholamine Polymer. <i>Advanced Materials</i> , 2011, 23, 1971-1975.	11.1	193
39	Mussel-Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold. <i>Advanced Materials</i> , 2011, 23, 5618-5622.	11.1	188
40	Mussel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3481-3485.	3.2	185
41	Combinatorial synthesis of chemically diverse core-shell nanoparticles for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12996-13001.	3.3	178
42	Facile DNA Immobilization on Surfaces through a Catecholamine Polymer. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 732-736.	7.2	176
43	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3342-3346.	7.2	173
44	DNA transfection using linear poly(ethylenimine) prepared by controlled acid hydrolysis of poly(2-ethyl-2-oxazoline). <i>Journal of Controlled Release</i> , 2001, 73, 391-399.	4.8	171
45	Bio-inspired catechol conjugation converts water-insoluble chitosan into a highly water-soluble, adhesive chitosan derivative for hydrogels and LbL assembly. <i>Biomaterials Science</i> , 2013, 1, 783.	2.6	164
46	PEG grafted polylysine with fusogenic peptide for gene delivery: high transfection efficiency with low cytotoxicity. <i>Journal of Controlled Release</i> , 2002, 79, 283-291.	4.8	160
47	Direct observation of a two-dimensional hole gas at oxide interfaces. <i>Nature Materials</i> , 2018, 17, 231-236.	13.3	151
48	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1077-1082.	7.2	148
49	Catechol-Grafted Poly(ethylene glycol) for PEGylation on Versatile Substrates. <i>Langmuir</i> , 2010, 26, 3790-3793.	1.6	143
50	Dynamic Bonds between Boronic Acid and Alginate: Hydrogels with Stretchable, Self-Healing, Stimuli-Responsive, Remoldable, and Adhesive Properties. <i>Biomacromolecules</i> , 2018, 19, 2053-2061.	2.6	143
51	pH triggered in-vivo photothermal therapy and fluorescence nanoplatfrom of cancer based on responsive polymer-indocyanine green integrated reduced graphene oxide. <i>Biomaterials</i> , 2015, 61, 229-238.	5.7	135
52	Plant-Inspired Pyrogallol-Containing Functional Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1903022.	7.8	132
53	Polydopamine Microfluidic System toward a Two-Dimensional, Gravity-Driven Mixing Device. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6126-6130.	7.2	123
54	A new gene delivery formulation of polyethylenimine/DNA complexes coated with PEG conjugated fusogenic peptide. <i>Journal of Controlled Release</i> , 2001, 76, 183-192.	4.8	122

#	ARTICLE	IF	CITATIONS
55	Tannic Acid as a Degradable Mucoadhesive Compound. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 687-696.	2.6	118
56	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21444-21449.	3.3	117
57	Enhancement of Blood Compatibility of Poly(urethane) Substrates by Mussel-Inspired Adhesive Heparin Coating. <i>Bioconjugate Chemistry</i> , 2011, 22, 1264-1269.	1.8	116
58	VATA: A Poly(vinyl alcohol)- and Tannic Acid-Based Nontoxic Underwater Adhesive. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20933-20941.	4.0	116
59	Target-specific delivery of siRNA by stabilized calcium phosphate nanoparticles using dopa-hyaluronic acid conjugate. <i>Journal of Controlled Release</i> , 2014, 192, 122-130.	4.8	115
60	Direct Insulation-to-Conduction Transformation of Adhesive Catecholamine for Simultaneous Increases of Electrical Conductivity and Mechanical Strength of CNT Fibers. <i>Advanced Materials</i> , 2015, 27, 3250-3255.	11.1	113
61	Air/Water Interfacial Formation of Freestanding, Stimuli-Responsive, Self-Healing Catecholamine Janus-Faced Microfilms. <i>Advanced Materials</i> , 2014, 26, 7581-7587.	11.1	111
62	N-terminal site-specific mono-PEGylation of epidermal growth factor. <i>Pharmaceutical Research</i> , 2003, 20, 818-825.	1.7	109
63	Ferroelectric tunnel junctions with graphene electrodes. <i>Nature Communications</i> , 2014, 5, 5518.	5.8	107
64	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 75, 104904.	8.2	105
65	Pyrogallol 2-Aminoethane: A Plant Flavonoid-Inspired Molecule for Material-Independent Surface Chemistry. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400113.	1.9	104
66	Silver-Polydopamine Hybrid Coatings of Electrospun Poly(vinyl alcohol) Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 547-554.	1.7	103
67	Sprayable Ultrafast Polydopamine Surface Modifications. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500857.	1.9	99
68	Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease. <i>Nano Energy</i> , 2021, 82, 105705.	8.2	97
69	A "Sticky"-Mucin-Inspired DNA Polysaccharide Binder for Silicon and Silicon-Graphite Blended Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1707594.	11.1	96
70	Microwave-Accelerated Rapid, Chemical Oxidant-Free, Material-Independent Surface Chemistry of Poly(dopamine). <i>Small</i> , 2017, 13, 1600443.	5.2	92
71	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. <i>Acta Biomaterialia</i> , 2019, 95, 165-175.	4.1	84
72	Polyplex-releasing microneedles for enhanced cutaneous delivery of DNA vaccine. <i>Journal of Controlled Release</i> , 2014, 179, 11-17.	4.8	83

#	ARTICLE	IF	CITATIONS
73	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1707557.	11.1	82
74	Coagulopathy-independent, bioinspired hemostatic materials: A full research story from preclinical models to a human clinical trial. <i>Science Advances</i> , 2021, 7, .	4.7	80
75	Functionalized biocompatible WO <sub>3</sub> nanoparticles for triggered and targeted in vitro and in vivo photothermal therapy. <i>Journal of Controlled Release</i> , 2015, 217, 211-220.	4.8	79
76	Fabrication of a Micro-omnifluidic Device by Omniphilic/Omniphobic Patterning on Nanostructured Surfaces. <i>ACS Nano</i> , 2014, 8, 9016-9024.	7.3	78
77	Progress in internal/external stimuli responsive fluorescent carbon nanoparticles for theranostic and sensing applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1149-1178.	2.9	78
78	Characterization of Poly(L-lactide)-block-Poly-(ethylene oxide)-block-Poly(L-lactide) Triblock Copolymer by Liquid Chromatography at the Critical Condition and by MALDI-TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 1726-1732.	3.2	76
79	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5793-5797.	7.2	76
80	Chitosan oral patches inspired by mussel adhesion. <i>Journal of Controlled Release</i> , 2020, 317, 57-66.	4.8	76
81	Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts. <i>Advanced Materials</i> , 2016, 28, 9961-9968.	11.1	73
82	A receptor-mediated gene delivery system using streptavidin and biotin-derivatized, pegylated epidermal growth factor. <i>Journal of Controlled Release</i> , 2002, 83, 109-119.	4.8	71
83	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. <i>ACS Nano</i> , 2011, 5, 4329-4336.	7.3	71
84	Hyaline Cartilage Regeneration by Combined Therapy of Microfracture and Long-Term Bone Morphogenetic Protein-2 Delivery. <i>Tissue Engineering - Part A</i> , 2011, 17, 1809-1818.	1.6	71
85	Gallol-Rich Hyaluronic Acid Hydrogels: Shear-Thinning, Protein Accumulation against Concentration Gradients, and Degradation-Resistant Properties. <i>Chemistry of Materials</i> , 2017, 29, 8211-8220.	3.2	70
86	Bioinspired Templating Synthesis of Metal-Polymer Hybrid Nanostructures within 3D Electrospun Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6381-6390.	4.0	69
87	Enhanced Adhesion of Preosteoblasts inside 3D PCL Scaffolds by Polydopamine Coating and Mineralization. <i>Macromolecular Bioscience</i> , 2013, 13, 1389-1395.	2.1	69
88	Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 219-232.	4.0	68
89	Improved cycle lives of LiMn <sub>2</sub> O <sub>4</sub> cathodes in lithium ion batteries by an alginate biopolymer from seaweed. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15224.	5.2	67
90	Development of Disulfide Core-Crosslinked Pluronic Nanoparticles as an Effective Anticancer-Drug-Delivery System. <i>Macromolecular Bioscience</i> , 2011, 11, 1264-1271.	2.1	66

#	ARTICLE	IF	CITATIONS
91	Target delivery of $\beta$ -cyclodextrin/paclitaxel complexed fluorescent carbon nanoparticles: externally NIR light and internally pH sensitive-mediated release of paclitaxel with bio-imaging. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5833-5841.	2.9	66
92	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. <i>Nanotechnology</i> , 2011, 22, 494020.	1.3	65
93	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of Li <sup>+</sup> Battery. <i>Chemistry of Materials</i> , 2014, 26, 4757-4764.	3.2	65
94	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. <i>Chemistry of Materials</i> , 2018, 30, 5220-5226.	3.2	64
95	Direct Visualization of Hyaluronic Acid Polymer Chain by Self-Assembled One-Dimensional Array of Gold Nanoparticles. <i>Macromolecules</i> , 2006, 39, 23-25.	2.2	63
96	Chitosan-g-hematin: Enzyme-mimicking polymeric catalyst for adhesive hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 224-233.	4.1	63
97	Chitosan-catechol: a writable bioink under serum culture media. <i>Biomaterials Science</i> , 2018, 6, 1040-1047.	2.6	63
98	Increasing the Conductivity and Adhesion of Polypyrrole Hydrogels with Electropolymerized Polydopamine. <i>Chemistry of Materials</i> , 2020, 32, 234-244.	3.2	63
99	Pegylated recombinant human epidermal growth factor (rhEGF) for sustained release from biodegradable PLGA microspheres. <i>Biomaterials</i> , 2002, 23, 2311-2317.	5.7	62
100	In Vivo Tracking of Mesenchymal Stem Cells Using Fluorescent Nanoparticles in an Osteochondral Repair Model. <i>Molecular Therapy</i> , 2012, 20, 1434-1442.	3.7	61
101	Vanadyl-Catecholamine Hydrogels Inspired by Ascidians and Mussels. <i>Chemistry of Materials</i> , 2015, 27, 105-111.	3.2	61
102	A visible light-curable yet visible wavelength-transparent resin for stereolithography 3D printing. <i>NPG Asia Materials</i> , 2018, 10, 82-89.	3.8	61
103	Enhancement of poly(ethylene glycol) mucoadsorption by biomimetic end group functionalization. <i>Biointerphases</i> , 2006, 1, 134-141.	0.6	60
104	Bio-inspired oligovitronection-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. <i>Biomaterials</i> , 2015, 50, 127-139.	5.7	59
105	Water Detoxification by a Substrate-Bound Catecholamine Adsorbent. <i>ChemPlusChem</i> , 2012, 77, 987-990.	1.3	57
106	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. <i>Chemistry of Materials</i> , 2017, 29, 4375-4384.	3.2	56
107	Gene Silencing by siRNA Microhydrogels via Polymeric Nanoscale Condensation. <i>Journal of the American Chemical Society</i> , 2011, 133, 13914-13917.	6.6	55
108	Hemostatic Swabs Containing Polydopamine-like Catecholamine Chitosan-Catechol for Normal and Coagulopathic Animal Models. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2314-2318.	2.6	55

#	ARTICLE	IF	CITATIONS
109	A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process. <i>Advanced Materials</i> , 2020, 32, e2002118.	11.1	55
110	Preparation and characterization of mono-PEGylated epidermal growth factor: evaluation of in vitro biologic activity. <i>Pharmaceutical Research</i> , 2002, 19, 845-851.	1.7	54
111	STAPLE: Stable Alginate Gel Prepared by Linkage Exchange from Ionic to Covalent Bonds. <i>Advanced Healthcare Materials</i> , 2016, 5, 75-79.	3.9	54
112	In situ synthesis of luminescent carbon nanoparticles toward target bioimaging. <i>Nanoscale</i> , 2015, 7, 5468-5475.	2.8	53
113	Ten Years of Polydopamine: Current Status and Future Directions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7521-7522.	4.0	52
114	Alginateâ€Boric Acid: pHâ€Triggered Bioinspired Glue for Hydrogel Assembly. <i>Advanced Functional Materials</i> , 2020, 30, 1908497.	7.8	52
115	Diatom Frustule Silica Exhibits Superhydrophilicity and Superhemophilicity. <i>ACS Nano</i> , 2020, 14, 4755-4766.	7.3	52
116	Therapeuticâ€Gasâ€Responsive Hydrogel. <i>Advanced Materials</i> , 2017, 29, 1702859.	11.1	51
117	Polydopamine coating in organic solvent for material-independent immobilization of water-insoluble molecules and avoidance of substrate hydrolysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 379-385.	2.9	51
118	Surface camouflage of pancreatic islets using 6-arm-PEG-catechol in combined therapy with tacrolimus and anti-CD154 monoclonal antibody for xenotransplantation. <i>Biomaterials</i> , 2011, 32, 7961-7970.	5.7	50
119	Suppression of post-angioplasty restenosis with an Akt1 siRNA-embedded coronary stent in a rabbit model. <i>Biomaterials</i> , 2012, 33, 8548-8556.	5.7	50
120	Photoâ€and pHâ€Tunable Multicolor Fluorescent Nanoparticleâ€Based Spiropyranâ€and BODIPYâ€Conjugated Polymer with Graphene Oxide. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2921-2927.	1.7	49
121	Conjugation of Trypsin by Temperature-Sensitive Polymers Containing a Carbohydrate Moiety: Thermal Modulation of Enzyme Activity. <i>Biotechnology Progress</i> , 1998, 14, 508-516.	1.3	48
122	DhITACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels. <i>Advanced Materials</i> , 2015, 27, 3513-3517.	11.1	48
123	Toxicityâ€Attenuated Glycol Chitosan Adhesive Inspired by Mussel Adhesion Mechanisms. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900275.	3.9	48
124	Geckoâ€™s Feet-Inspired Self-Peeling Switchable Dry/Wet Adhesive. <i>Chemistry of Materials</i> , 2021, 33, 2785-2795.	3.2	48
125	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. <i>Advanced Materials</i> , 2021, 33, e2007460.	11.1	46
126	Thromboresistant and endothelialization effects of dopamine-mediated heparin coating on a stent material surface. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1259-1269.	1.7	45



#	ARTICLE	IF	CITATIONS
127	Direct Evidence for the Polymeric Nature of Polydopamine. <i>Angewandte Chemie</i> , 2019, 131, 1089-1094.	1.6	44
128	Direct Applicability of La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> Thin Film Cathode to Yttria Stabilised Zirconia Electrolytes at <i>T</i> = 650°C. <i>Fuel Cells</i> , 2010, 10, 1057-1065.	1.5	43
129	A Novel Method for Identifying PEGylation Sites of Protein Using Biotinylated PEG Derivatives. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 97-103.	1.6	42
130	Chemical Control of Yeast Cell Division by Cross-Linked Shells of Catechol-Grafted Polyelectrolyte Multilayers. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1351-1356.	2.0	42
131	Adhesive barrier/directional controlled release for cartilage repair by endogenous progenitor cell recruitment. <i>Biomaterials</i> , 2015, 39, 173-181.	5.7	41
132	Mussel-inspired poly( $\beta$ -glutamic acid)/nanosilicate composite hydrogels with enhanced mechanical properties, tissue adhesive properties, and skin tissue regeneration. <i>Acta Biomaterialia</i> , 2021, 123, 254-262.	4.1	41
133	Bio-inspired catechol chemistry: a new way to develop a re-moldable and injectable coacervate hydrogel. <i>Chemical Communications</i> , 2012, 48, 11895.	2.2	39
134	Enhanced Loading Efficiency and Sustained Release of Doxorubicin from Hyaluronic Acid/Graphene Oxide Composite Hydrogels by a Mussel-Inspired Catecholamine. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7395-7401.	0.9	38
135	Material-independent fabrication of superhydrophobic surfaces by mussel-inspired polydopamine. <i>RSC Advances</i> , 2014, 4, 10330.	1.7	38
136	Cell-repellant Dextran Coatings of Porous Titania Using Mussel Adhesion Chemistry. <i>Macromolecular Bioscience</i> , 2013, 13, 1511-1519.	2.1	36
137	Surface Tension-Confined Microfluidics and Their Applications. <i>ChemPhysChem</i> , 2013, 14, 471-481.	1.0	35
138	Photothermal conversion upon near-infrared irradiation of fluorescent carbon nanoparticles formed from carbonized polydopamine. <i>RSC Advances</i> , 2016, 6, 61482-61491.	1.7	34
139	Enzymatically Cross-Linked Poly( $\beta$ -glutamic acid) Hydrogel with Enhanced Tissue Adhesive Property. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3103-3113.	2.6	34
140	Single-molecule detection of structural changes during Per-Arnt-Sim (PAS) domain activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11561-11566.	3.3	33
141	Dopamine-loaded poly( <i>d,l</i> -lactide-co-glycolic acid) microspheres: New strategy for encapsulating small hydrophilic drugs with high efficiency. <i>Biotechnology Progress</i> , 2014, 30, 215-223.	1.3	33
142	SpONGE: Spontaneous Organization of Numerous Layer Generation by Electrospray. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7587-7591.	7.2	33
143	Therapeutic Efficacy of Nanocomplex of Poly(Ethylene Glycol) and Catechin for Dry Eye Disease in a Mouse Model. , 2017, 58, 1682.		33
144	NiCHE Platform: Nature-Inspired Catechol-Conjugated Hyaluronic Acid Environment Platform for Salivary Gland Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4285-4294.	4.0	33

#	ARTICLE	IF	CITATIONS
145	A Bioinspired Polymeric Template for 1D Assembly of Metallic Nanoparticles, Semiconductor Quantum Dots, and Magnetic Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2010, 31, 2109-2114.	2.0	32
146	Spinner-flask culture induces redifferentiation of de-differentiated chondrocytes. <i>Biotechnology Letters</i> , 2011, 33, 829-836.	1.1	32
147	Drawing Sticky Adeno-associated Viruses on Surfaces for Spatially Patterned Gene Expression. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5598-5601.	7.2	32
148	Bioinspired, Water-Soluble to Insoluble Self-Conversion for Flexible, Biocompatible, Transparent, Catecholamine Polysaccharide Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 7709-7716.	7.8	32
149	Phenolic condensation and facilitation of fluorescent carbon dot formation: a mechanism study. <i>Nanoscale</i> , 2017, 9, 16596-16601.	2.8	32
150	Adaptive control in lubrication, adhesion, and hemostasis by Chitosan-Catechol-pNIPAM. <i>Biomaterials Science</i> , 2019, 7, 3599-3608.	2.6	32
151	Catechin solubilization by spontaneous hydrogen bonding with poly(ethylene glycol) for dry eye therapeutics. <i>Journal of Controlled Release</i> , 2019, 307, 413-422.	4.8	32
152	Long-term, feeder-free maintenance of human embryonic stem cells by mussel-inspired adhesive heparin and collagen type I. <i>Acta Biomaterialia</i> , 2016, 32, 138-148.	4.1	31
153	Multipurpose Intraperitoneal Adhesive Patches. <i>Advanced Functional Materials</i> , 2019, 29, 1900495.	7.8	31
154	Synthesis and Characterization of a Multi-Sensitive Crosslinked Injectable Hydrogel Based on Pluronic. <i>Macromolecular Bioscience</i> , 2011, 11, 1594-1602.	2.1	30
155	Catalyst-mediated yet catalyst-free hydrogels formed by interfacial chemical activation. <i>Chemical Communications</i> , 2014, 50, 2869-2872.	2.2	30
156	Precise Targeting of Liver Tumor Using Glycol Chitosan Nanoparticles: Mechanisms, Key Factors, and Their Implications. <i>Molecular Pharmaceutics</i> , 2016, 13, 3700-3711.	2.3	30
157	Hemostatic Ability of Chitosan-Phosphate Inspired by Coagulation Mechanisms of Platelet Polyphosphates. <i>Macromolecular Bioscience</i> , 2018, 18, e1700378.	2.1	30
158	Biofunctionalization via flow shear stress resistant adhesive polysaccharide, hyaluronic acid-catechol, for enhanced in vitro endothelialization. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 14-20.	2.9	28
159	Controlling mechanical properties of bio-inspired hydrogels by modulating nano-scale, inter-polymeric junctions. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 887-894.	1.5	27
160	Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. <i>Materials Science and Engineering C</i> , 2018, 93, 1104-1115.	3.8	27
161	Effects of Gas Pressure of Cold Spray on the Formation of Al-Based Intermetallic Compound. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 102-109.	1.6	26
162	Sticky - Delivering-From - Strategies Using Viral Vectors for Efficient Human Neural Stem Cell Infection by Bioinspired Catecholamines. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8288-8294.	4.0	26

#	ARTICLE	IF	CITATIONS
163	Spheroform: Therapeutic Spheroid-Forming Nanotextured Surfaces Inspired by Desert Beetle <i>Physosterna cribripes</i> . <i>Advanced Healthcare Materials</i> , 2015, 4, 511-515.	3.9	24
164	Surface PEGylation via Native Chemical Ligation. <i>Bioconjugate Chemistry</i> , 2011, 22, 4-8.	1.8	23
165	M13 Bacteriophage Displaying DOPA on Surfaces: Fabrication of Various Nanostructured Inorganic Materials without Time-Consuming Screening Processes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18653-18660.	4.0	23
166	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. <i>Carbon</i> , 2013, 63, 45-53.	5.4	22
167	Harnessing Sphingosine-1-Phosphate Signaling and Nanotopographical Cues To Regulate Skeletal Muscle Maturation and Vascularization. <i>ACS Nano</i> , 2017, 11, 11954-11968.	7.3	22
168	Intelligent glue. <i>Nature</i> , 2010, 465, 298-299.	13.7	21
169	Preparation of Sticky <i>Escherichia coli</i> through Surface Display of an Adhesive Catecholamine Moiety. <i>Applied and Environmental Microbiology</i> , 2014, 80, 43-53.	1.4	21
170	Efficient delivery of siRNAs by a photothermal approach using plant flavonoid-inspired gold nanoshells. <i>Chemical Communications</i> , 2014, 50, 13388-13390.	2.2	21
171	New Antifouling Platform Characterized by Single-Molecule Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3553-3558.	4.0	21
172	Role of Dopamine Chemistry in the Formation of Mechanically Strong Mandibles of Grasshoppers. <i>Chemistry of Materials</i> , 2015, 27, 6478-6481.	3.2	20
173	Material-Selective Polydopamine Coating in Dimethyl Sulfoxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49146-49154.	4.0	20
174	Reduction/Oxidation Induced Cleavable/Crosslinkable Temperature-Sensitive Hydrogel Network Containing Disulfide Linkages. <i>Polymer Journal</i> , 1998, 30, 976-980.	1.3	19
175	Finite Element Simulation of Hot Nanoindentation in Vacuum. <i>Experimental Mechanics</i> , 2013, 53, 1201-1211.	1.1	18
176	Hydro-nanofibrous mesh deep cell penetration: a strategy based on peeling of electrospun coaxial nanofibers. <i>Nanoscale</i> , 2018, 10, 6051-6059.	2.8	18
177	Addressing the Shortcomings of Polyphenol-Derived Adhesives: Achievement of Long Shelf Life for Effective Hemostasis. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25115-25125.	4.0	18
178	Hemostatic Needles: Controlling Hemostasis Time by a Catecholamine Oxidative Pathway. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10741-10747.	4.0	17
179	Freeze-Thawing-Induced Macroporous Catechol Hydrogels with Shape Recovery and Sponge-like Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4318-4329.	2.6	17
180	Diatom Silica/Polysaccharide Elastomeric Hydrogels: Adhesion and Interlocking Synergy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21703-21713.	4.0	17

#	ARTICLE	IF	CITATIONS
181	Development of animal experimental periodontitis models. <i>Journal of Periodontal and Implant Science</i> , 2013, 43, 147.	0.9	16
182	Surface Chemistry of Vitamin: Pyridoxal 5-phosphate (Vitamin B <sub>6</sub> ) as a Multifunctional Compound for Surface Functionalization. <i>Advanced Functional Materials</i> , 2015, 25, 4754-4760.	7.8	16
183	Astringent Mouthfeel as a Consequence of Lubrication Failure. <i>Angewandte Chemie</i> , 2016, 128, 5887-5891.	1.6	16
184	In-plane quasi-single-domain BaTiO <sub>3</sub> via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784.	5.8	16
185	Novel Fabrication of MicroRNA Nanoparticle-Coated Coronary Stent for Prevention of Post-Angioplasty Restenosis. <i>Korean Circulation Journal</i> , 2016, 46, 23.	0.7	15
186	Therapeutic Effect of Akt1 siRNA Nanoparticle Eluting Coronary Stent on Suppression of Post-Angioplasty Restenosis. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1211-1222.	0.5	15
187	Galactosylated Lipidoid Nanoparticles for Delivery of Small Interfering RNA to Inhibit Hepatitis C Viral Replication In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 2931-2941.	3.9	15
188	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie</i> , 2016, 128, 3403-3407.	1.6	15
189	Cancer Therapy: Programmed Nanoparticle-Loaded Nanoparticles for Deep Penetrating 3D Cancer Therapy (Adv. Mater. 29/2018). <i>Advanced Materials</i> , 2018, 30, 1870213.	11.1	15
190	Phenol-Derived Carbon Sealant Inspired by a Coalification Process. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3864-3870.	7.2	15
191	Functional Polysaccharide Sutures Prepared by Wet Fusion of Interfacial Polyelectrolyte Complexation Fibers. <i>Advanced Functional Materials</i> , 2017, 27, 1702017.	7.8	14
192	A nature-inspired protective coating on soft/wet biomaterials for SEM by aerobic oxidation of polyphenols. <i>Materials Horizons</i> , 2020, 7, 1387-1396.	6.4	14
193	Polydopamine Sensors of Bacterial Hypoxia via Fluorescence Coupling. <i>Advanced Functional Materials</i> , 2021, 31, 2007993.	7.8	14
194	ZnO nanoparticle-embedded modified silk fibroin-tannin multifunctional hydrogel. <i>International Journal of Biological Macromolecules</i> , 2022, 210, 1-10.	3.6	14
195	Facile method to sort graphene quantum dots by size through ammonium sulfate addition. <i>RSC Advances</i> , 2014, 4, 56848-56852.	1.7	13
196	Polydopamine-Decorated Sticky, Water-Friendly, Biodegradable Polycaprolactone Cell Carriers. <i>Macromolecular Bioscience</i> , 2016, 16, 738-747.	2.1	13
197	PEGylation of G-CSF using cleavable oligo-lactic acid linkage. <i>Journal of Controlled Release</i> , 2003, 89, 271-284.	4.8	12
198	The Promotion of Human Neural Stem Cells Adhesion Using Bioinspired Poly(norepinephrine) Nanoscale Coating. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-10.	1.5	12

#	ARTICLE	IF	CITATIONS
199	Effect of charge on in vivo adhesion stability of catechol-conjugated polysaccharides. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 425-430.	2.9	12
200	Molecularly Engineered Islet Cell Clusters for Diabetes Mellitus Treatment. <i>Cell Transplantation</i> , 2012, 21, 1775-1789.	1.2	11
201	Highly Oriented Carbon Nanotube Sheets for Rechargeable Lithium Oxygen Battery Electrodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 7611-7614.	0.9	11
202	Role of Pyridoxal 5-Phosphate at the Titanium Implant Interface In Vivo: Increased Hemophilicity, Inactive Platelet Adhesion, and Osteointegration. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600962.	3.9	11
203	Wet-Dry Hybrid Spinning of Graphene Fiber Inspired by Spider Silk Production Mechanisms. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800585.	1.9	11
204	Robust Low Friction Antibiotic Coating of Urethral Catheters Using a Catechol-Functionalized Polymeric Hydrogel Film. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	11
205	Preparation of External Stimulus-Free Gelatin-Catechol Hydrogels with Injectability and Tunable Temperature Responsiveness. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 236-244.	4.0	11
206	Antagonistically Functionalized Diatom Biosilica for Bio-Triboelectric Generators. <i>Small</i> , 2022, 18, e2107638.	5.2	11
207	Fabrication Process and Electromagnetic Wave Absorption Characterization of a CNT/Ni/Epoxy Nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7669-7674.	0.9	10
208	PEGylation and HAYlation via catechol: $\epsilon$ -Amine-specific reaction at N-terminus of peptides and proteins. <i>Acta Biomaterialia</i> , 2016, 43, 50-60.	4.1	10
209	Extracellular vesicle (EV)-polyphenol nanoaggregates for microRNA-based cancer diagnosis. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	10
210	Effects of surface camouflaged islet transplantation on pathophysiological progression in a db/db type 2 diabetic mouse model. <i>Biochemical and Biophysical Research Communications</i> , 2013, 433, 513-518.	1.0	9
211	Bioinspired Adhesives: A Phenol-Amine Superglue Inspired by Insect Sclerotization Process ( <i>Adv. Mater.</i> ) <a href="#">TJ ETQq1,1 0.784314 rgBT</a>	11.1	9
212	Developmental role of hyaluronic acid and its application in salivary gland tissue engineering. <i>Acta Biomaterialia</i> , 2020, 115, 275-287.	4.1	9
213	Lithium-Ion Batteries: Mussel-Inspired Adhesive Binders for High-Performance Silicon Nanoparticle Anodes in Lithium-Ion Batteries ( <i>Adv. Mater.</i> 11/2013). <i>Advanced Materials</i> , 2013, 25, 1570-1570.	11.1	8
214	PEGylated substance P augments therapeutic angiogenesis in diabetic critical limb ischemia. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 396-409.	2.9	8
215	Surface Modification of Highly Ordered Pyrolytic Graphite (HOPG) by a Mussel-Inspired Poly(norepinephrine) Coating: Characterizations and Cell Adhesion Test. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 960-962.	1.0	8
216	Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. <i>Langmuir</i> , 2020, 36, 4496-4502.	1.6	7

#	ARTICLE	IF	CITATIONS
217	Polydopamine Circle-Patterns on a Superhydrophobic AAO Surface: Water-Capturing Property. Bulletin of the Korean Chemical Society, 2013, 34, 3141-3142.	1.0	7
218	TAPE: A Biodegradable Hemostatic Glue Inspired by a Ubiquitous Compound in Plants for Surgical Application. Journal of Visualized Experiments, 2016, , .	0.2	6
219	A new software scheme for scatter correction based on a simple radiographic scattering model. Medical and Biological Engineering and Computing, 2019, 57, 489-503.	1.6	6
220	Localization of Phenolic Compounds at an Air-Solid Interface in Plant Seed Mucilage: A Strategy to Maximize Its Biological Function?. ACS Applied Materials & Interfaces, 2020, 12, 42531-42536.	4.0	6
221	Nano-assembly of a Chemically Tailored Cas9 Ribonucleoprotein for In Vivo Gene Editing and Cancer Immunotherapy. Chemistry of Materials, 2022, 34, 547-561.	3.2	6
222	Enhancing transfection efficiency using polyethylene glycol grafted polyethylenimine and fusogenic peptide. Biotechnology and Bioprocess Engineering, 2001, 6, 269-273.	1.4	5
223	Phenolic Pyrogallol Fluorogen for Red Fluorescence Development in a PAS Domain Protein. Chemistry of Materials, 2018, 30, 1467-1471.	3.2	5
224	Safety and efficacy evaluations of an adeno-associated virus variant for preparing IL10-secreting human neural stem cell-based therapeutics. Gene Therapy, 2019, 26, 135-150.	2.3	5
225	Editorial: Catechol and Polyphenol Chemistry for Smart Polymers. Frontiers in Chemistry, 2019, 7, 883.	1.8	5
226	Electrospinnable, Neutral Coacervates for Facile Preparation of Solid Phenolic Bioadhesives. ACS Applied Materials & Interfaces, 2021, 13, 37989-37996.	4.0	5
227	Area light source-triggered latent angiogenic molecular mechanisms intensify therapeutic efficacy of adult stem cells. Bioengineering and Translational Medicine, 2022, 7, e10255.	3.9	5
228	Pastable, Adhesive, Injectable, Nanofibrous, and Tunable (PAINT) Biphasic Hybrid Matrices as Versatile Therapeutic Carriers. ACS Applied Materials & Interfaces, 2021, 13, 42429-42441.	4.0	5
229	Inverted Quasi-Spherical Droplets on Polydopamine-TiO <sub>2</sub> Substrates for Enhancing Gene Delivery. Macromolecular Bioscience, 2017, 17, 1700148.	2.1	4
230	Phenol-Derived Carbon Sealant Inspired by a Coalification Process. Angewandte Chemie, 2020, 132, 3892-3898.	1.6	4
231	A multicenter, prospective, randomized clinical trial of marine mussel-inspired adhesive hemostatic materials, InnoSEAL Plus. Annals of Surgical Treatment and Research, 2021, 101, 299.	0.4	4
232	Tissue Reconstruction: Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (Adv. Funct. Mater. 25/2015). Advanced Functional Materials, 2015, 25, 3798-3798.	7.8	3
233	One-Step Immobilization of Initiators for Surface Initiated Ring Opening Polymerization and Atom Transfer Radical Polymerization by Poly(norepinephrine) Coating. Journal of Nanoscience and Nanotechnology, 2015, 15, 1597-1600.	0.9	3
234	Leaf Vein-Inspired Electrospinning System by Grafting Origami. Chemistry of Materials, 2016, 28, 7990-7996.	3.2	3

#	ARTICLE	IF	CITATIONS
235	Molecular shielding of porcine islets by tissue-adhesive chitosan-catechol for enhancement of in-vitro stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 330-338.	2.9	3
236	Tat-Dependent Heterologous Secretion of Recombinant Tyrosinase by <i>Pseudomonas fluorescens</i> Is Aided by a Translationally Fused Caddie Protein. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	3
237	Endoscopic application of mussel-inspired phenolic chitosan as a hemostatic agent for gastrointestinal bleeding: A preclinical study in a heparinized pig model. <i>PLoS ONE</i> , 2021, 16, e0251145.	1.1	3
238	Self-sealing hyaluronic acid-coated 30-gauge intravitreal injection needles for preventing vitreous and drug reflux through needle passage. <i>Scientific Reports</i> , 2021, 11, 16996.	1.6	3
239	Phototoxicity-free blue light for enhancing therapeutic angiogenic efficacy of stem cells. <i>Cell Biology and Toxicology</i> , 2021, , 1.	2.4	3
240	Surface Nanopatterning: Mussel-Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold ( <i>Adv. Mater.</i> 47/2011). <i>Advanced Materials</i> , 2011, 23, 5584-5584.	11.1	2
241	Bioinspired Materials: Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering ( <i>Adv. Funct. Mater.</i> 14/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1856-1856.	7.8	2
242	BIOMOSAIC Film: Artificial Biofilms with Catalytic and Self-Healing Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900379.	1.9	2
243	Biomedical Applications: Multipurpose Intraperitoneal Adhesive Patches ( <i>Adv. Funct. Mater.</i> 29/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970202.	7.8	2
244	Particle size effects on the coherent phase equilibria of binary nanoparticles. <i>Metals and Materials International</i> , 2005, 11, 357-363.	1.8	1
245	Control synthesis of iron oxide nanospheres using solution chemistry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4425-4428.	0.8	1
246	Biom mineralization: Mussel-Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization ( <i>Adv. Funct. Mater.</i> 13/2010). <i>Advanced Functional Materials</i> , 2010, 20, n/a-n/a.	7.8	1
247	Applying Shape-Controlled Pt Nano-dendrites Supported on Carbon for Membrane-Electrode Assembly in a Proton Exchange Membrane Fuel Cell. <i>Fuel Cells</i> , 2013, 13, 889-894.	1.5	1
248	&lt;/&gt;A Special Section on&lt;/&gt; Nanotechnology for Biomimetics and Nano-Biomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7361-7362.	0.9	1
249	Dry Spun 3D Woven Carbon Nanotube Anode Electrode for Li-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 9152-9157.	0.9	1
250	Inactivation efficiency of DNA and RNA viruses during chitin-to-chitosan conversion. <i>Macromolecular Research</i> , 2015, 23, 505-508.	1.0	1
251	Use of Biobrane Glove Finger Sleeves on Nonintended Burn Wounds of the Hand&quot;A Cost-Saving Method. <i>Journal of Hand and Microsurgery</i> , 2017, 09, 054-056.	0.1	1
252	Low-dose single-energy material decomposition in radiography using a sparse-view computed tomography scan. <i>Instrumentation Science and Technology</i> , 2019, 47, 325-340.	0.9	1

#	ARTICLE	IF	CITATIONS
253	Clinical application of a new hemostatic material using mussel-inspired catecholamine hemostat: A pilot study. <i>Annals of Hepato-biliary-pancreatic Surgery</i> , 2022, 26, 98-103.	0.1	1
254	Performance of nonlinear carrier synchronization in Rician fading channels. , 0, , .		0
255	Remembering Professor Tae Gwan Park (1957â€“2011). <i>Bioconjugate Chemistry</i> , 2011, 22, 1257-1258.	1.8	0
256	Bio-inspired surface treatment on touch screen panels (TSPs) for adhesion enhancement. , 2012, , .		0
257	Catecholamine: Air/Water Interfacial Formation of Freestanding, Stimuli-Responsive, Self-Healing Catecholamine Janus-Faced Microfilms ( <i>Adv. Mater.</i> 45/2014). <i>Advanced Materials</i> , 2014, 26, 7534-7534.	11.1	0
258	MUSSEL-INSPIRED ADHESIVE BIOMATERIALS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2014, , 273-291.	0.1	0
259	DNA Hydrogels: DhTACT: DNA Hydrogel Formation by Isothermal Amplification of Complementary Target in Fluidic Channels ( <i>Adv. Mater.</i> 23/2015). <i>Advanced Materials</i> , 2015, 27, 3466-3466.	11.1	0
260	Biologically Inspired Materials: Biologically Inspired Materials Exhibiting Repeatable Regeneration with Self-Sealing Capabilities without External Stimuli or Catalysts ( <i>Adv. Mater.</i> 45/2016). <i>Advanced Materials</i> , 2016, 28, 10104-10104.	11.1	0
261	Critical Performance Analysis of HTS Magnet Wires Using an Induced Current-Based Measurement System. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-5.	1.1	0
262	Material-Independent Surface Modification Inspired by Principle of Mussel Adhesion. <i>Biologically-inspired Systems</i> , 2018, , 417-436.	0.4	0
263	The Clinical Characteristics and Risk Factors of Critical Illness-Related Corticosteroid Adrenal Insufficiency. , 2019, , .		0
264	Disagreement Between FlotracÂ®/vigileoÂ® System and BiozÂ® System for Stroke Volume Variation Measurement for Determining of Fluid Administration: A Preliminary Study. , 2019, , .		0
265	Catechology: The Study of Mussel- and Insect-inspired Adhesion, Coating, and Chemoselective Reaction. , 2020, , 261-288.		0